APPENDIX O

RECOMMENDED GAGES FOR SHEET METAL DUCT CONSTRUCTION

Table O-1. Recommended Gages for Sheet Metal Duct Construction "

minum i. & S. gage	Steel U. S. std. gage	Maximum side, inches	Type of transverse joint connections b	Bracing
24	26	Up to 12	S-drive, pocket or bar slips, on 7-ft. 10-in.	None.
22	24	13 to 24	S-drive, pocket or bar slips, on 7-ft. 10-in. centers.	None.
		25 to 30	S-drive, 1-in. pocket or 1-in. bar slips, on 7-ft. 10-in. centers.	1- x 1- x 1/8-in. angles 4 ft. from join
		31 to 40	Drive, 1-in. pocket or 1-in. bar slips, on 7-ft. 10-in. centers.	1- x 1- x 1/2-in. angles 4 ft from join
20	22	41 to 60	1½-in. angle connections, or 1½-in. pocket or 1½-in. bar slips with 1¾-in. x ½-in. bar rein-	1½- x 1½- x ½-in. angles 4 ft. fro
18	20	61 to 90	forcing on 7-ft. 10-in. centers.c 1½-in. angle connections, or 1½-in pocket or 1½-in. bar slips 3-ft. 9-in. maximum centers	joint. 1½- x 1½- x ½-in. diagonal angles,
16	18	91 and up	with 1%- x %-in. bar reinforcing. 2-in. angle connections or 1½-in. pocket or 1½-in. bar slips 3-ft. 9-in. maximum centers	1½- x 1½- x ½-in. angles 2 ft. fro joint. 1½- x 1½- x 1½-in. diagonal angle
			with 1%- x %-in. bar reinforcing.d	or $1\frac{1}{2}$ - x $1\frac{1}{2}$ - x $\frac{1}{6}$ -in. angles 2 if from joint.

^a For normal pressures and velocities utilized in typical ventilating and air conditioning systems. Where special rigidity or stiffness is required, ducts should be constructed of metal two gages heavier. All uninsulated ducts 18 in. and larger should be cross-broken. Cross-breaking may be omitted on uninsulated ducts if two gages of heavier metal are used.

b Other joint connections of equivalent mechanical strength and air tightness may be used.

Duct sections of 3 feet 9 inches with bracing angles omitted may be used instead of 7 foot 10 inch lengths with joints indicated.

d Duets 91 in. and larger require special field study for hanging and supporting methods.